



SEQUENCE LISTING

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O'Neill, Gary P.
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George, Susan

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RESEMBLING-GALANIN RECEPTORS

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<141> 2001-08-23

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<151> 2000-02-22

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<151> 1999-02-24

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<212> DNA

<213> Homo Sapiens

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<212> DNA

<213> Rattus Rattus

<400> 2

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<210> 3

<211> 398

<212> PRT

<213> Homo Sapiens

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35 40 45
Phe Ala Ala Leu Met Leu Leu Gly Leu Val Gly Asn Ser Leu Val Ile
50 55 60
Tyr Val Ile Cys Arg His Lys Pro Met Arg Thr Val Thr Asn Phe Tyr
65 70 75 80
Ile Ala Asn Leu Ala Ala Thr Asp Val Thr Phe Leu Leu Cys Cys Val
85 90 95
Pro Phe Thr Ala Leu Leu Tyr Pro Leu Pro Gly Trp Val Leu Gly Asp
100 105 110
Phe Met Cys Lys Phe Val Asn Tyr Ile Gln Gln Val Ser Val Gln Ala
115 120 125
Thr Cys Ala Thr Leu Thr Ala Met Ser Val Asp Arg Trp Tyr Val Thr
130 135 140
Val Phe Pro Leu Arg Ala Leu His Arg Arg Thr Pro Arg Leu Ala Leu
145 150 155 160
Ala Val Ser Leu Ser Ile Trp Val Gly Ser Ala Ala Val Ser Ala Pro
165 170 175
Val Leu Ala Leu His Arg Leu Ser Pro Gly Pro Arg Ala Tyr Cys Ser
180 185 190
Glu Ala Phe Pro Ser Arg Ala Leu Glu Arg Ala Phe Ala Leu Tyr Asn
195 200 205
Leu Leu Ala Leu Tyr Leu Leu Pro Leu Leu Ala Thr Cys Ala Cys Tyr
210 215 220
Ala Ala Met Leu Arg His Leu Gly Arg Val Ala Val Arg Pro Ala Pro
225 230 235 240
Ala Asp Ser Ala Leu Gln Gly Gln Val Leu Ala Glu Arg Ala Gly Ala
245 250 255
Val Arg Ala Lys Val Ser Arg Leu Val Ala Ala Val Val Leu Leu Phe
260 265 270
Ala Ala Cys Trp Gly Pro Ile Gln Leu Phe Leu Val Leu Gln Ala Leu
275 280 285
Gly Pro Ala Gly Ser Trp His Pro Arg Ser Tyr Ala Ala Tyr Ala Leu

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				325					330					335	
Val	Cys	Pro	Cys	Ala	Pro	Arg	Arg	Pro	Arg	Arg	Pro	Arg	Arg	Pro	Gly
			340					345					350		
Pro	Ser	Asp	Pro	Ala	Ala	Pro	His	Ala	Glu	Leu	Leu	Arg	Leu	Gly	Ser
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His	Pro	Ala	Pro	Ala	Arg	Ala	Gln	Lys	Pro	Gly	Ser	Ser	Gly	Leu	Ala
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<211> 395

<212> PRT

<213> Rattus Rattus

<400> 4

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		20						25					30		
Pro	Gly	Ser	Ala	Pro	Arg	Pro	Leu	Asp	Ala	Trp	Leu	Val	Pro	Leu	Phe
		35					40					45			
Phe	Ala	Ala	Leu	Met	Leu	Leu	Gly	Leu	Val	Gly	Asn	Ser	Leu	Val	Ile
	50				55						60				
Phe	Val	Ile	Cys	Arg	His	Lys	His	Met	Gln	Thr	Val	Thr	Asn	Phe	Tyr
65					70				75					80	
Ile	Ala	Asn	Leu	Ala	Ala	Thr	Asp	Val	Thr	Phe	Leu	Leu	Cys	Cys	Val
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Pro	Phe	Thr	Ala	Leu	Leu	Tyr	Pro	Leu	Pro	Thr	Trp	Val	Leu	Gly	Asp
			100					105					110		
Phe	Met	Cys	Lys	Phe	Val	Asn	Tyr	Ile	Gln	Gln	Val	Ser	Val	Gln	Ala
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Thr	Cys	Ala	Thr	Leu	Thr	Ala	Met	Ser	Val	Asp	Arg	Trp	Tyr	Val	Thr
	130					135				140					
Val	Phe	Pro	Leu	Arg	Ala	Leu	His	Arg	Arg	Thr	Pro	Arg	Leu	Ala	Leu
145					150					155					160
Thr	Val	Ser	Leu	Ser	Ile	Trp	Val	Gly	Ser	Ala	Ala	Val	Ser	Ala	Pro
				165					170					175	
Val	Leu	Ala	Leu	His	Arg	Leu	Ser	Pro	Gly	Pro	His	Thr	Tyr	Cys	Ser
			180					185				190			
Glu	Ala	Phe	Pro	Ser	Arg	Ala	Leu	Glu	Arg	Ala	Phe	Ala	Leu	Tyr	Asn
		195					200				205				
Leu	Leu	Ala	Leu	Tyr	Leu	Leu	Pro	Leu	Leu	Ala	Thr	Cys	Ala	Cys	Tyr
	210					215					220				
Gly	Ala	Met	Leu	Arg	His	Leu	Gly	Arg	Ala	Ala	Val	Arg	Pro	Ala	Pro
225					230				235						240
Thr	Asp	Gly	Ala	Leu	Gln	Gly	Gln	Leu	Leu	Ala	Gln	Arg	Ala	Gly	Ala
				245					250					255	
Val	Arg	Thr	Lys	Val	Ser	Arg	Leu	Val	Ala	Ala	Val	Val	Leu	Leu	Phe
			260					265					270		
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Ile	Trp	Ala	His	Cys	Met	Ser	Tyr	Ser	Asn	Ser	Ala	Leu	Asn	Pro	Leu
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Leu	Tyr	Ala	Phe	Leu	Gly	Ser	His	Phe	Arg	Gln	Ala	Phe	Cys	Arg	Val
				325					330					335	

Cys Pro Cys Gly Pro Gln Arg Gln Arg Arg Pro His Ala Ser Ala His
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 Ser Asp Arg Ala Ala Pro His Ser Val Pro His Ser Arg Ala Ala His
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 Pro Val Arg Val Arg Thr Pro Glu Pro Gly Asn Pro Val Val His Ser
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 Pro Ser Val Gln Asp Glu His Thr Ala Pro Leu
 385 390 395

<210> 5
 <211> 346
 <212> PRT
 <213> Rattus Rattus

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 35 40 45
 Gly Asn Ser Leu Val Ile Thr Val Leu Ala Pro Ser Lys Pro Gly Lys
 50 55 60
 Pro Arg Ser Thr Thr Asn Leu Phe Ile Leu Asn Leu Ser Ile Ala Asp
 65 70 75 80
 Leu Ala Tyr Leu Leu Phe Cys Ile Phe Phe Gln Ala Thr Val Tyr Ala
 85 90 95
 Leu Pro Thr Trp Val Leu Gly Ala Phe Ile Cys Lys Phe Ile His Tyr
 100 105 110
 Phe Phe Thr Val Ser Met Leu Val Ser Ile Phe Thr Leu Ala Ala Met
 115 120 125
 Ser Val Asp Arg Tyr Val Ala Ile Val His Ser Arg Arg Ser Ser Ser
 130 135 140
 Leu Arg Val Ser Arg Asn Ala Leu Leu Gly Val Gly Phe Ile Trp Ala
 145 150 155 160
 Leu Ser Ile Ala Met Ala Ser Pro Val Ala Tyr Tyr Gln Arg Leu Phe
 165 170 175
 His Arg Asp Ser Asn Gln Thr Phe Cys Trp Glu His Trp Pro Asn Gln
 180 185 190
 Leu His Lys Lys Ala Tyr Val Val Cys Thr Phe Val Phe Gly Tyr Leu
 195 200 205
 Leu Pro Leu Leu Leu Ile Cys Phe Cys Tyr Ala Lys Val Leu Asn His
 210 215 220
 Leu His Lys Lys Leu Lys Asn Met Ser Lys Lys Ser Glu Ala Ser Lys
 225 230 235 240
 Lys Lys Thr Ala Gln Thr Val Leu Val Val Val Val Phe Gly Ile
 245 250 255
 Ser Trp Leu Pro His His Val Ile His Leu Trp Ala Glu Phe Gly Ala
 260 265 270
 Phe Pro Leu Thr Pro Ala Ser Phe Phe Phe Arg Ile Thr Ala His Cys
 275 280 285
 Leu Ala Tyr Ser Asn Ser Ser Val Asn Pro Ile Ile Tyr Ala Phe Leu
 290 295 300
 Ser Glu Asn Phe Arg Lys Ala Tyr Lys Gln Val Phe Lys Cys Arg Val
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<210> 6
 <211> 372

<212> PRT

<213> Rattus Rattus

<400> 6

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Val Leu Leu Pro Gly Gly Gln Ala Val Ser Thr Thr Asn Leu Phe Ile
 50      55      60
Leu Asn Leu Gly Val Ala Asp Leu Cys Phe Ile Leu Cys Cys Val Phe
 65      70      75      80
Phe Gln Ala Thr Ile Tyr Thr Leu Asp Asp Trp Tyr Phe Gly Ser Leu
 85      90      95
Leu Cys Lys Ala Val His Phe Leu Ile Phe Leu Thr Met His Ala Ser
 100     105     110
Ser Phe Thr Leu Ala Ala Val Ser Leu Asp Arg Tyr Leu Ala Ile Arg
 115     120     125
Tyr Pro Leu His Ser Arg Glu Leu Arg Ile Pro Arg Asn Ala Leu Ala
 130     135     140
Ala Ile Gly Leu Ile Trp Gly Leu Ala Leu Leu Phe Ser Gly Pro Tyr
 145     150     155     160
Ile Ser Tyr Tyr Arg Gln Ser Gln Leu Ala Asn Leu Thr Val Cys His
 165     170     175
Pro Ala Trp Ser Ala Pro Arg Arg Arg Ala Met Asp Leu Cys Thr Phe
 180     185     190
Val Phe Ser Tyr Leu Leu Pro Val Leu Val Leu Ser Leu Thr Tyr Ala
 195     200     205
Arg Thr Leu Arg Tyr Leu Trp Arg Thr Val Asp Phe Val Thr Ala Gly
 210     215     220
Ser Gly Ser Gln Arg Ala Lys Arg Lys Val Thr Pro Met Ile Ile Ile
 225     230     235     240
Val Ala Val Leu Phe Cys Leu Cys Trp Met Pro His His Ala Leu Ile
 245     250     255
Leu Cys Val Trp Phe Gly Arg Phe Pro Leu Thr Arg Ala Thr Tyr Ala
 260     265     270
Leu Arg Ile Leu Ser His Leu Val Ser Tyr Ala Asn Ser Cys Val Asn
 275     280     285
Pro Ile Val Tyr Ala Leu Val Ser Lys His Phe Arg Lys Gly Phe Arg
 290     295     300
Lys Ile Cys Ala Gly Leu Leu Arg Pro Ala Pro Arg Arg Ala Ser Gly
 305     310     315     320
Arg Val Ser Ile Leu Ala Pro Gly Asn His Ser Gly Ser Met Leu Glu
 325     330     335
Gln Glu Ser Thr Asp Leu Thr Gln Val Ser Glu Ala Ala Gly Pro Leu
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<210> 7

<211> 370

<212> PRT

<213> Rattus Rattus

<400> 7

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Ala	Val	Ala	Asp	Leu	Cys	Phe	Ile	Leu	Cys	Cys	Val	Phe	Phe	Gln	Ala		
65				70					75					80			
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Thr	Val	His	Leu	Leu	Ile	Tyr	Leu	Thr	Met	Tyr	Ala	Ser	Ser	Phe	Thr		
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	115						120					125					
Arg	Ser	Arg	Ala	Leu	Arg	Ile	Pro	Pro	Asn	Ala	Arg	Ala	Ala	Val	Gly		
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			165						170					175			
Glu	Asp	Ala	Arg	Arg	Pro	Arg	Leu	Asp	Val	Ala	Thr	Phe	Ala	Ala	Gly		
		180						185					190				
Tyr	Leu	Leu	Pro	Val	Ala	Val	Val	Ser	Leu	Ala	Tyr	Gly	Arg	Thr	Leu		
	195						200					205					
Cys	Phe	Leu	Trp	Ala	Ala	Val	Gly	Pro	Ala	Gly	Ala	Ala	Ala	Ala	Glu		
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Ala	Arg	Pro	Arg	Ala	Thr	Gly	Phe	Ala	Gly	Pro	Ala	Met	Leu	Ala	Val		
225				230					235						240		
Ala	Ala	Leu	Tyr	Ala	Leu	Cys	Trp	Gly	Pro	His	His	Ala	Leu	Ile	Leu		
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Cys	Phe	Trp	Tyr	Gly	Arg	Phe	Ala	Phe	Ser	Pro	Ala	Thr	Tyr	Ala	Cys		
		260						265					270				
Arg	Leu	Ala	Ser	His	Gly	Leu	Ala	Tyr	Ala	Asn	Ser	Cys	Leu	Asn	Pro		
	275						280					285					
Leu	Val	Val	Ser	Leu	Ala	Ser	Arg	His	Phe	Arg	Ala	Arg	Phe	Arg	Arg		
	290					295					300						
Leu	Trp	Pro	Cys	Gly	Arg	Cys	Arg	His	Arg	His	His	His	Arg	Ala	His		
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Arg	Ala	Leu	Arg	Val	Cys	Pro	Ala	Ser	Ser	Gly	Pro	Ala	Gly	Tyr			
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Pro	Gly	Asp	Ala	Pro	Pro	Arg	Gly	Trp	Ser	Met	Glu	Pro	Arg	Gly	Asp		
		340						345					350				
Ala	Leu	Arg	Gly	Gly	Gly	Glu	Thr	Arg	Leu	Thr	Leu	Ser	Pro	Arg	Gly		
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Pro	Gln																
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<210> 8

<211> 372

<212> PRT

<213> Rattus Rattus

<400> 8

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		20						25				30					
Asn	Ala	Ser	Gly	Ser	Pro	Gly	Ala	Arg	Ser	Ala	Ser	Ser	Leu	Ala	Leu		
	35					40					45						
Ala	Ile	Ala	Ile	Thr	Ala	Leu	Tyr	Ser	Ala	Val	Cys	Ala	Val	Gly	Leu		
	50					55					60						
Leu	Gly	Asn	Val	Leu	Val	Met	Phe	Gly	Ile	Val	Pro	Tyr	Thr	Lys	Leu		
65				70					75						80		

Lys Thr Ala Thr Asn Ile Tyr Ile Phe Asn Leu Ala Leu Ala Asp Ala
 85 90 95
 Leu Ala Thr Ser Thr Leu Phe Phe Gln Ser Ala Lys Tyr Leu Met Glu
 100 105 110
 Thr Trp Pro Phe Gly Glu Leu Leu Cys Lys Ala Val Leu Ser Ile Asp
 115 120 125
 Tyr Tyr Asn Met Phe Thr Ser Ile Phe Thr Leu Thr Met Met Ser Val
 130 135 140
 Asp Arg Tyr Ile Ala Val Cys His Pro Val Lys Ala Leu Asp Phe Arg
 145 150 155 160
 Thr Pro Ala Lys Ala Lys Leu Ile Asn Ile Cys Ile Trp Val Leu Ala
 165 170 175
 Ser Gly Val Gly Val Pro Ile Met Val Met Ala Val Thr Gln Pro Arg
 180 185 190
 Asp Gly Ala Val Val Cys Thr Leu Gln Phe Pro Ser Pro Ser Trp Tyr
 195 200 205
 Trp Asp Thr Val Thr Lys Ile Cys Val Phe Leu Phe Ala Phe Val Val
 210 215 220
 Pro Ile Leu Ile Ile Thr Val Cys Tyr Cys Leu Met Leu Leu Arg Leu
 225 230 235 240
 Arg Ser Val Pro Leu Leu Ser Gly Ser Lys Glu Lys Asp Arg Ser Leu
 245 250 255
 Arg Arg Ile Thr Pro Met Val Leu Val Val Val Gly Ala Phe Val Val
 260 265 270
 Cys Trp Ala Pro Ile His Ile Phe Val Ile Val Trp Thr Leu Val Asp
 275 280 285
 Ile Asn Arg Arg Asp Pro Leu Val Val Ala Ala Leu His Leu Cys Ile
 290 295 300
 Ala Leu Gly Tyr Ala Asn Ser Ser Leu Asn Pro Val Leu Tyr Ala Phe
 305 310 315 320
 Leu Asp Glu Asn Phe Lys Arg Cys Phe Arg Gln Leu Cys Arg Ala Pro
 325 330 335
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 Gly Ala Ala Ala
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<220>
 <223> PCR Primer

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<400> 11
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<213> Artificial Sequence

<220>
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